

MISSOULA FIRE WEATHER – 2017

Location

The National Weather Service Office in Missoula is located at the Missoula Fire, Science and Technology Center, 6633 Aviation Way, 1/4 mile west of the Missoula International Airport. The mailing address is:

National Weather Service
6633 Aviation Way
Missoula, MT 59808

Phone Numbers

- Fire Weather desk: (406) 329-4716
- Office: (406) 329-4715/4840
- FAX: (406) 329-4842

Contacts

Administrative

Bruce Bauck
Meteorologist in Charge
bruce.bauck@noaa.gov

Jennifer Kitsmiller
Fire Wx Mgr
jennifer.kitsmiller@noaa.gov

Marty Whitmore
WCM
marty.whitmore@noaa.gov

IMETs

Bob Nester
Incident Meteorologist
robert.nester@noaa.gov

Ryan Leach
Incident Meteorologist
ryan.leach@noaa.gov

Internet Address

- <http://weather.gov/missoula>

Operational Hours

- Twenty-four hour service is provided for routine and special fire weather products.

TRAINING PROVIDED

Missoula Fire Weather Forecasters are available for training courses, workshops, seminars and other meetings requiring meteorological expertise. Training includes local and Regional courses such as S-290 and S-390, as well as pre-season refreshers for Hotshot crews, Smokejumpers, general firefighters, lookout personnel, etc. Please give as much advance notification as possible to ensure the availability of a forecaster.

All Training Requests should go through the Fire Weather Manager, Jennifer Kitsmiller.

e-mail Jennifer.Kitsmiller@noaa.gov
and cc: Marty.Whitmore@noaa.gov

or

phone 406-329-4715

FIRE WEATHER BRIEFINGS

NWS Missoula produces recorded fire weather briefings for local land managers.

Recorded briefings will be posted Sundays and Thursdays by 3:00 pm MDT/2:00 pm PDT from the beginning of spring burning through the end of fall burning season, as user need dictates. During periods of slow prescribed burning or low fire activity, recorded briefings may be discontinued for a time until user need increases. Likewise, more frequent recordings may be produced during periods of increased wildfire activity. In addition, live calls may be initiated during periods of extreme fire weather conditions with multiple Incident Management Teams (IMTs) in place. These calls will typically take place in the morning and will be announced through the recorded briefing and email. Information for joining the live call follows.

Toll free number: 877-812-0276
Participant Passcode: 831268#

The recorded briefings will be posted on the fire weather webpage for at least 24 hours. A live link to the briefing will also be placed beneath the discussion in the fire weather forecast (FWF). Fire weather briefings are also archived on our [YouTube channel](http://www.youtube.com/NWSMissoula) (<http://www.youtube.com/NWSMissoula>).

Land managers are encouraged to call NWS Missoula regarding specific weather and/or recorded briefing questions at (406)-329-4716

SOCIAL MEDIA

NWS Missoula uses social media tools such as Twitter, Facebook and YouTube to engage the public and our partners in conversations about important weather, water, and climate issues, which at times may include information pertaining to fire weather. These tools will be used in addition to other sources already in use to inform the fire community of critical weather.

NWS Missoula primarily uses Facebook for longer lead times, often addressing potential weather impacts we are seeing several days in advance. Facebook posts may include

information on forecaster confidence. You can follow NWS Missoula on Facebook at <https://www.facebook.com/NWSMissoula>.

NWS Missoula primarily uses Twitter to discuss weather events happening in real time, or in the near future. The office may Tweet about current observations, changes being made to the forecast, timing weather events such as thunderstorms, etc. You can follow NWS Missoula on Twitter at <https://www.twitter.com/NWSMissoula>.

NWS Missoula has also acquired a channel on YouTube. Short informational videos, including fire weather briefings, will be posted at this site. You can follow NWS Missoula on YouTube at <http://www.youtube.com/nwsmissoula>.

NWS Missoula also uses email as a way to keep in touch with our fire weather partners. Emails may be used to notify about potentially significant fire weather events and will often be sent several days before traditional products such as watches or warnings would be issued. Emails may also be used to announce the start/end of the fire weather forecast, to advertise fire weather briefings (both live and recorded), and during the prescribed burning seasons to advertise potential burn windows. If you would like to be included on these emails, please send a message stating your name, agency and position to jennifer.kitsmiller@noaa.gov

AGENCIES SERVED

The National Weather Service Office in Missoula provides fire weather services to agencies in northwest Montana and west central Idaho. Agencies served include:

| | |
|--|---|
| <u>USDA Forest Service Region 1</u> | Lolo NF , Kootenai NF , Flathead NF , Beaverhead/Deerlodge NF , Clearwater / Nezperce NF , Bitterroot NF , Northern Rockies Coordination Center (NRCC) |
| <u>Bureau of Land Management</u> | BLM-Idaho , BLM-Montana |
| <u>Bureau of Indian Affairs</u> | Nez Perce Tribe of Idaho , Confederated Salish and Kootenai Tribe |
| <u>Fish & Wildlife Service</u> | FWS-Montana , FWS-Idaho |
| <u>National Park Service</u> | Glacier NP , Yellowstone NP |
| <u>State of Montana</u> | Department of Natural Resources and Conservation |
| Counties (Montana) | Beaverhead , Deer Lodge , Flathead , Granite , Lake , Lincoln , Mineral , Missoula , Powell , Ravalli , Sanders , Silverbow , Glacier , Madison , Jefferson |
| <u>State of Idaho</u> | Idaho Department of Lands |
| Counties (Idaho) | Clearwater , Idaho , Lewis , Nez Perce , Latah |

Fire Contacts

Western Region

| <u>Operations and Decision Support Division</u> | Name | Number |
|---|-----------------|--------------------------|
| Fire Weather Program Manager | Scott Carpenter | 801-524-5120 ext. 245 |
| | Claudia Bell | 801-524-5137 ext. 233 |

USFS Forest Dispatch Center Managers

| Forest | Phone |
|---|--------------|
| Dillon Interagency | 406-683-3975 |
| Bitterroot Dispatch | 406-363-7133 |
| Grangeville Interagency | 208-983-6800 |
| Kalispell Interagency | 406-758-5260 |
| Kootenai Interagency | 406-283-7740 |
| Missoula Interagency | 406-829-7070 |
| Plains Dispatch | 406-826-3061 |
| Ronan Dispatch | 406-676-2550 |

USFS Forest/District Fire Management Officers

| Forest | City/State | Phone |
|--------------------------------------|-------------------|--------------|
| Beaverhead/Deerlodge | Dillon, MT | 406-683-3990 |
| Dillon District | Dillon, MT | 406-683-3983 |
| Wise River/Wisdom District | Wisdom, MT | 406-689-3243 |

**Northern Rockies Annual Fire Weather Operating Plan
Missoula Office**

| | | |
|------------------------------------|------------------|------------------------------|
| Madison District | Ennis, MT | 406-682-4253 |
| Jefferson/Butte District | Whitehall, MT | 406-287-3223 |
| Pintler District | Phillipsburg, MT | 406-859-3211 |
| Bitterroot | Hamilton, MT | 406-363-7135 |
| Stevensville District | Stevensville, MT | 406-777-5461 |
| Darby/Sula District | Darby, MT | 406-821-4258 |
| West Fork District | Darby, MT | 406-821-1216 |
| Clearwater/Nezperce | Grangeville, ID | 208-983-4066 |
| Clearwater NF | | |
| Palouse District | Potlatch, ID | 208-875-1702 |
| North Fork District | Orofino, ID | 208-476-8251 |
| Lochsa District | Kooskia, ID | 208-926-6419 |
| Powell District | Powell, ID | 208-942-0345 |
| Nezperce NF | | |
| Salmon River District | Slate Creek, ID | 208-839-2141 |
| Elk City/Red River District | Elk City, ID | 208-842-2124 |
| Moose Creek District | Fenn, ID | 208-926-8948 |
| Flathead | Kalispell, MT | 406-758-5235 |
| Swan Lake District | Big Fork , MT | 406-837-7527 |
| Hungry Horse/Glacier View District | Hungry Horse, MT | 406-387-3834 |
| Spotted Bear District | Hungry Horse, MT | 406-758-6461 406-387-3832 |
| Tally Lake District | Kalispell, MT | 406-758-3522 |
| Kootenai | Libby, MT | 406-283-7740 |
| Rexford District | Eureka, MT | 406-296-7173 |
| Fortine District | Fortine, MT | 406-882-8328 |
| Three Rivers District | Troy, MT | 406-295-7486 |
| Libby District | Libby, MT | 406-293-7551 |
| Cabinet District | Trout Creek, MT | 406-827-0712 |
| Lolo | Missoula, MT | 406-329-1089 |
| Missoula District | Missoula, MT | 406-329-3852 |
| Ninemile District | Huson, MT | 406-626-5422 |
| Seeley Lake District | Seeley Lake, MT | 406-677-3915 |
| Superior District | Superior, MT | 406-822-3952 |

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| | | |
|--------------------------------|------------|--------------|
| Plains/Thompson Falls District | Plains, MT | 406-826-4340 |
|--------------------------------|------------|--------------|

| Agency | City/State | Phone |
|---|-------------------|--------------|
| Idaho Department of Lands | Coeur d'Alene, ID | 208-769-1525 |
| Clearwater Supervisory Area | Orofino, ID | 208-476-4587 |
| Maggie Creek Supervisory Area | Kamiah, ID | 208-935-2141 |
| Craig Mountain Forest Protective District | Craigmont, ID | 208-924-5571 |
| Ponderosa Supervisory Area | Deary, ID | 208-877-1121 |
| Clearwater-Potlatch Timber Protective Association | Orofino, ID | 208-476-5612 |
| DNRC | Helena, MT | 406-444-2074 |
| Northwestern Land Office | Kalispell, MT | 406-751-2240 |
| Southwestern Land Office | Missoula, MT | 406-542-4200 |
| Central Land Office | Helena, MT | 406-458-3500 |
| Dillon Unit | Dillon, MT | 406-683-6305 |
| BLM Montana | | |
| Missoula Field Office | Missoula, MT | 406-329-3914 |
| Dillon Field Office | Dillon, MT | 406-683-8000 |
| Butte Field Office | Butte, MT | 406-533-7600 |
| BLM Idaho | | |
| Cottonwood Field Office | Cottonwood, ID | 208-962-3245 |
| National Parks Service | | |
| Glacier National Park | West Glacier, MT | 406-888-5803 |
| Yellowstone National Park | WY | 307-344-2180 |
| Fish and Wildlife Service | | |
| Lee Metcalf National Wildlife Refuge | Stevensville, MT | 406-777-5552 |
| National Bison Range | Moiese, MT | 406-644-2211 |
| Bureau of Indian Affairs | | |
| Confederated Salish and Kootenai Tribe | Ronan, MT | 406-676-2550 |
| Nez Perce Tribe | Lapwai, ID | 208-843-2827 |

**Northern Rockies Annual Fire Weather Operating Plan
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| Agency | Name | Phone |
|---|----------------|--------------|
| Northern Rockies Coordination Center (NRCC) | | 329-4880 |
| Center Manager | Kathy Pipkin | 329-4709 |
| Assistant Center Manager | Judy Heinz | 329-4708 |
| Intelligence | Julie Polutnik | 329-4885 |

| Agency | Name | Phone |
|-------------------------------------|------------------|--------------|
| Predictive Services | | |
| Meteorologist | Michael Richmond | 329-4703 |
| Meteorologist | Vacant | 329-4875 |
| Smoke Coordinator/Fuels | Erin Law | 406-214-7214 |

ROUTINE PRODUCT ISSUANCE TIMES

General Forecast

| | | | |
|-----------------------|-----------------------|-------|------------------|
| April - June | Morning | Daily | 0700 MDT |
| July - September | Morning/ Afternoon | Daily | 0700/1500 MDT |
| October - November | Mornings | Daily | 0700 MDT |

Specific dates of the above timeframes will be dictated by user needs.

Fire Weather Briefings

| | | |
|--------------------------------|--------------------------|-------------|
| Spring through Fall Burning | Sundays and Thursdays | 1500 MDT |
|--------------------------------|--------------------------|-------------|

Briefings will be provided as needed during periods of increased wildfire activity.

Specific dates of the above timeframes will be dictated by user needs.

National Fire Danger Rating System (NFDRS) Forecast Product

June - September Daily 1530
MDT

NWS Missoula will be testing a new 7 day NFDRS forecast this year. Traditional NFDRS forecasts only provide the forecast for one day, however the new format will supply forecast information out for seven days. The overall format will not change, however there will now be seven lines for each NFDRS site, representing each day of the seven day period. Below is an example of what the 7 day forecast will look like for one NFDRS site.

FCST,STATION#,YYMMDD,13,WX,TEMP,RH,LAL1,LAL2,WIND,,TX,TN,RHx,RHn,PD1,PD2,WETFLAG

FCST,101100,160224,13,2,53,39,1,1,07,,53,31,66,31,0,0,N
FCST,101100,160225,13,2,56,38,1,1,05,,56,35,61,33,0,0,N
FCST,101100,160226,13,1,57,46,1,1,04,,59,39,61,32,0,0,N
FCST,101100,160227,13,2,56,50,1,1,06,,60,40,84,42,0,2,N
FCST,101100,160228,13,2,56,53,1,1,05,,58,40,85,42,3,1,N
FCST,101100,160229,13,2,54,52,1,1,01,,59,42,83,46,3,2,N
FCST,101100,160301,13,2,51,53,1,1,02,,56,32,93,45,3,1,N

If you have any questions regarding this test, please feel free to contact Jenn Kitsmiller at Jennifer.Kitsmiller@noaa.gov

FIRE WEATHER PLANNING FORECAST EXAMPLE

ZCZC GTFFWFMSO
FNUS55 KMSO 101059

Fire Weather Planning Forecast for Wrn Montana and N Cntrl Idaho
National Weather Service Missoula MT
459 AM MDT Fri Aug 10 2013

...Headline as Necessary...

DISCUSSION...

Idaho: This would be a short, non-technical description of the weather pattern and features over the next couple days in Idaho. It will focus on the main weather concerns in the short term.

Montana: This would be a short, non-technical description of the weather pattern and features over the next couple days in Montana. It will focus on the main weather concerns in the short term.

Extended...Occasionally the discussion may include information on the medium range(days 3-7). In these cases, a separate labeled paragraph like this will be added.

When a recorded briefing is available, a live link will be placed at the end of the discussion.

MTZ104-105-111345-
Kootenai-Flathead/Glacier Park-
459 AM MDT Fri Aug 10 2013

...Red Flag Warning in Effect From Noon Today to 9 PM MDT This Evening...

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.Today...

- * Sky/Weather.....Partly sunny. Areas of smoke. Isolated showers and thunderstorms this morning.
- * Max Temperature.....77-83 valleys and 63-71 ridges.
- * Min Humidity.....24-34 percent.
- * 20-Foot winds.....
- * Lower Elevation.....Variable less than 7 mph becoming southwest 15-25 mph with higher gusts in the late morning and afternoon.
- * Ridge Top.....West 15-25 mph with higher gusts.
- * Haines Index.....3 Very Low.
- * LAL.....2.
- * CWR (> 0.10 Inch)...10 Percent.

.Tonight...

- * Sky/Weather.....Partly cloudy. Areas of smoke.
- * Min Temperature.....42-50.
- * Max Humidity.....80-90 percent valleys and 61-71 percent ridges.
- * 20-Foot winds.....
- * Lower Elevation.....Southwest 15-25 mph becoming west 5-10 mph in the late evening and early morning... then becoming downslope/downvalley 5-10 mph early in the morning.
- * Ridge Top.....West 15-25 mph decreasing to 10-15 mph after midnight.
- * Haines Index.....2 very low.
- * LAL.....1.
- * CWR (> 0.10 Inch)...0 Percent.

.Saturday...

- * Sky/Weather.....Mostly sunny. Areas of smoke in the morning.
- * Max Temperature.....82-89 valleys and 72-77 ridges.
- * Min Humidity.....19-29 percent.
- * 20-Foot Winds.....
- * Lower Elevation.....Upslope/Upvalley 2-4 mph becoming south 5-10 mph in the afternoon.
- * Ridge Top.....South 5-15 mph.
- * Haines Index.....4 Low.
- * LAL.....1.
- * CWR (> 0.10 Inch)...0 Percent.

.Sunday...Partly cloudy. Lows 48-58. Highs 77-87. West winds to 10-15 mph.

.Monday...Partly cloudy. Lows 49-59. Highs 80-90. Southwest winds 5-10 mph.

.Tuesday...Partly cloudy. Lows 50-60. Highs 85-95. Diurnal terrain winds to 10 mph.

.Wednesday...Partly cloudy. Slight chance of showers and thunderstorms. Lows 51-61. Highs 87-97.

.Thursday...Mostly cloudy. Slight chance of showers and thunderstorms. Lows 51-61. Highs 80-90.

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Forecast for next geographical descriptor and fire weather zone group.

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RED FLAG CRITERIA

One or more of the following conditions, in conjunction with Very High or Extreme Fire Dangers, will be considered for Red Flag events.

1. Increasing thunderstorm activity (scattered or widespread coverage).
2. A combination of low RH's and increasing surface winds. See the Red Flag Decision Chart below.

RED FLAG DECISION CHART

Missoula's Fire Weather Forecasters utilize a Red Flag Decision Chart as a "first look" at the need for a Red Flag Warning, based on increasing wind and low RH. Typically Red Flag Warnings are issued when fire danger is rated "VERY HIGH" or greater. However, there may be exceptions. This chart is by no means an absolute.

Winds are sustained 10-minute average (RAWS).

Winds/RH Category

| | | RELATIVE HUMIDITY | | | | | | |
|---|----|-------------------|------|------|------|------|------|------|
| | | 35% | 30% | 25% | 20% | 15% | 10% | 5% |
| SUSTAINED 20' WIND MPH For Persistent Gusts add 10 MPH | 5 | NO | NO | NO | NO | NO | NO | Poss |
| | 10 | NO | NO | NO | NO | Poss | Poss | YES |
| | 15 | NO | NO | NO | Poss | Poss | YES | YES |
| | 20 | NO | NO | Poss | Poss | YES | YES | YES |
| | 25 | NO | Poss | Poss | YES | YES | YES | YES |
| | 30 | NO | Poss | YES | YES | YES | YES | YES |
| | | | | | | | | |

Expected over a significant portion of the zone for 2 or more consecutive hours.

Poss = Possible

FORECAST ZONE DESCRIPTIONS

ZONE 102: PALOUSE/NEZ PERCE RESERVATION/HELL'S CANYON REGION

The northern boundary follows the southern portion of the Coeur d'Alene Indian Reservation and the Latah/Clearwater County lines. The eastern boundary originates at the intersection of the Little North Fork of the Clearwater (near the Clearwater County line) and the Clearwater/Nezperce National Forest boundary and runs south along the Forest boundary past Grangeville to the main Salmon River at Island Bar and continues south and west along the Idaho County border. The western boundary runs along the Snake River from the Coeur d'Alene Reservation to the Adams County line.

ZONE 103: CLEARWATER/NEZ PERCE NATIONAL FOREST

This zone encompasses the entire combined Clearwater and Nezperce National Forests as well as the Gospel Hump and portions of the Selway Bitterroot Wilderness. Also included is the Floodwood State Forest in the vicinity of the Little North Fork of the Clearwater at the northern border of Clearwater County.

ZONE 104: KOOTENAI NATIONAL FOREST/TALLEY LAKE DISTRICT (FNF)

The western and northern boundaries follow political lines along the Idaho-Montana and Canadian borders. The eastern boundary follows the Kootenai National Forest boundary south to route 93 to the Flathead National Forest boundary, north of Whitefish, east of Columbia Falls and heading south along the Forest boundary to the Lake County line. The southern boundary follows the Lake County line and Flathead National Forest boundary to the intersection of route 2 which continues south along Forest boundaries to the State border. The State protected lands on the Fisher River District are also included within this zone.

ZONE 105: FLATHEAD NATIONAL FOREST/GLACIER PARK/BOB MARSHALL AND MISSION MOUNTAIN WILDERNESS

This zone starts at the intersection of the Kootenai/Flathead National Forests at the Canadian border running east and including Glacier National Park. The eastern boundary follows the Park border and intersects with the Continental Divide and runs south to the Flathead National Forest boundary. The southern boundary borders the Bob Marshall and Mission Mountain Wilderness lines. The western boundary follows the Mission Mountains and Swan range along the Forest boundary to north of Whitefish and west to route 93 to the Kootenai/Flathead National Forest boundary. This zone includes the Stillwater State Forest.

ZONE 106: WESTERN LOLO NATIONAL FOREST

This zone includes the Nine Mile, Superior, Plains/Thompson Falls and western portions of the Missoula District on the Lolo National Forest. It is bounded by the Idaho-Montana border (Bitterroot Mountains) and extends northeast along the Kootenai/Lolo National Forest boundary. Moving south, this zone follows the Salish & Kootenai Indian Reservation and Lolo National Forest interface to west of Evaro tracing the Forest boundary to Huson. Crossing I-

90, this zone continues south along the Forest boundary until the intersection of route 12 and continues southwestward to the State border.

ZONE 107: SALISH & KOOTENAI INDIAN RESERVATION

This zone is bounded by the Lolo National Forest on the west and south and the Flathead National Forest on the east and north.

ZONE 108: EASTERN LOLO NATIONAL FOREST /WELCOME CREEK AND SCAPEGOAT WILDERNESSES

This zone includes all of the Lolo National Forest east of Missoula and south of route 12, up to the Bitterroot National Forest boundary. It also contains the Scapegoat and most of the Welcome Creek Wildernesses. The eastern boundary starts at the tri-section of the Bob Marshall Wilderness, Continental Divide and Scapegoat Wilderness and continues southeast to the Wilderness/Lincoln District boundary. This line continues south along the Helena National Forest boundary to the intersection with the Deerlodge/Beaverhead National Forest. The southern boundary runs west from this boundary to Deer Lodge then north along Interstate 90 to the intersection with the Philipsburg District line. State protection areas include Missoula, Clearwater, Garrison, and Anaconda.

ZONE 109: BITTERROOT NATIONAL FOREST

This zone includes the entire Bitterroot National Forest (in both Idaho and Montana) as well as the Frank Church River of No Return Wilderness and portions of the Selway-Bitterroot Wilderness. The Stevensville District represents the northern boundary for this zone which is approximately along the Ravalli County line.

ZONE 110: DEERLODGE/ WESTERN BEAVERHEAD NATIONAL FOREST

The western boundary runs between Lemhi Pass northward along the Idaho-Montana border to the intersection of the Ravalli and Beaverhead County lines. This boundary continues along the Forest boundary via the Anaconda-Pintlar range and Sapphire Divide past Skalkaho Pass and across Rock Creek into the Welcome Creek Wilderness. This boundary cuts north across the John Long Mountains and intersects with Interstate 90. This zone includes the eastern-most section of this wilderness area (Lolo National Forest) which is managed by the Philipsburg District. The northern border follows Interstate 90 to Deerlodge, cuts east and runs along the Forest boundary, across the divide, and intersects with Interstate 15. The eastern boundary runs southerly and follows Interstate 15 through Butte and Dillon then along Route 41 to Clark Canyon Reservoir. The southern boundary extends west along Horse Prairie Creek to Lemhi Pass.

ZONE 111: EASTERN BEAVERHEAD NATIONAL FOREST

The southern boundary follows the Idaho-Montana border from Lemhi Pass along the Continental Divide (Centennial Mountains included) to Reynolds Pass. The eastern zone line continues along the Beaverhead/Gallatin National Forest boundary to north of Ennis where the Gallatin boundary intersects the Madison County line. The zone then follows the Madison County line to east of Whitehall and along the Deerlodge/Helena Forest boundary until Interstate 15 is intersected. The west boundary is identical to the east boundary of the Deerlodge/western Beaverhead National Forest zone.

**Northern Rockies Annual Fire Weather Operating Plan
Missoula Office**

WEATHER STATIONS

| Zone | Station | WIMS # | County | Lat | Long | Elev | Site | Aspect | NFDRS |
|-------------|---------------------------------|---------------|---------------|------------|-------------|-------------|-------------|---------------|--------------|
| 102 | Potlatch | 100603 | Latah | 46:93 | 116:91 | 2500 | Valley | Flat | X |
| 102 | Dent | 100714 | Clearwater | 46:62 | 116:22 | 1700 | Valley | S | X |
| 102 | Pierce | 100711 | Clearwater | 46:50 | 115:80 | 3085 | Valley | E | X |
| 102 | Slate Creek | 101037 | Idaho | 45:63 | 116:28 | 1568 | Valley | W | X |
| 102 | Pittsburg Lndg | 101100 | Idaho | 45:63 | 116:46 | 1357 | Valley | E | X |
| 102 | Shock | 100606 | Latah | 46:98 | 116:62 | 3700 | Ridge | S | X |
| 103 | Kelly Creek | 100708 | Clearwater | 46:72 | 115:26 | 2739 | Valley | S | X |
| 103 | Powell | 101031 | Idaho | 46:51 | 114:69 | 3666 | Valley | S | X |
| 103 | Fenn | 101013 | Idaho | 46:10 | 115:55 | 1520 | Valley | SW | X |
| 103 | Moose Creek | 101028 | Idaho | 46:13 | 114:92 | 2460 | Valley | Flat | X |
| 103 | Red River | 101045 | Idaho | 45:71 | 115:33 | 4600 | Slope | S | X |
| 103 | Round Top | 101049 | Idaho | 46:53 | 114:59 | 6560 | Ridge | Flat | |
| 103 | Tess Portable | 100791 | Idaho | 46:03 | 116:33 | 3461 | Valley | Flat | |
| 104 | Libby | 240107 | Lincoln | 48:38 | 115:57 | 2070 | Valley | Flat | X |
| 104 | Eureka | 240110 | Lincoln | 48:90 | 115:06 | 2632 | Valley | Flat | X |
| 104 | Troy | 240112 | Lincoln | 48:47 | 115:92 | 1950 | Valley | Flat | X |
| 104 | BC Baldy | 240119 | Lincoln | 48:63 | 115:58 | 4300 | Slope | SW | X |
| 104 | Trout Creek | 241210 | Sanders | 47:87 | 115:62 | 2379 | Valley | Flat | X |
| 104 | Boorman | 240226 | Flathead | 48:14 | 114:72 | 3963 | Valley | Flat | |
| 104 | Fisher River | 240118 | Lincoln | 48:36 | 115:32 | 2160 | Valley | S | |
| 104 | Yaak | 240120 | Lincoln | 48:92 | 115:66 | 3000 | Valley | Flat | X |
| 105 | Spotted Br RS | 240214 | Flathead | 47:92 | 113:52 | 3725 | Valley | S | X |
| 105 | Hungry Horse | 240217 | Flathead | 48:38 | 114:06 | 3123 | Valley | S | X |
| 105 | Hornet | 240224 | Flathead | 48:88 | 114:51 | 6500 | Ridge | N | X |
| 105 | Condon WC | 241502 | Missoula | 47:54 | 113:72 | 3684 | Slope | S | X |
| 105 | Pony Creek | 241512 | Flathead | 47:63 | 113:69 | 5510 | | | |
| 105 | Big Prairie QD | 241596 | Flathead | 47:51 | 113:24 | 4639 | | | X |
| 105 | Fielding | 240225 | Flathead | 48:28 | 113:43 | 4641 | Valley | Flat | |
| 105 | Spotted Bear LO | 240213 | Flathead | 47:90 | 113:44 | 7225 | Ridge | W | X |
| 112 | Deep Creek | 240308 | Glacier | 48:36 | 113:11 | 5340 | Ridge | S | |
| 105 | St. Mary | 240303 | Glacier | 48:74 | 113:43 | 4560 | Valley | Flat | |
| 105 | West Glacier | 240207 | Flathead | 48:51 | 113:99 | 3165 | Valley | Flat | X |

**Northern Rockies Annual Fire Weather Operating Plan
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| Zone | Station | WIMS # | County | Lat | Long | Elev | Site | Aspect | NFDRS |
|-------------|---------------------------------|---------------|---------------|------------|-------------|-------------|-------------|---------------|--------------|
| 105 | Polebridge | 240210 | Flathead | 48:78 | 114:28 | 3574 | Valley | Flat | X |
| 105 | Stillwater | 240221 | Flathead | 48:54 | 114:56 | 3116 | Valley | S | X |
| 106 | Lolo Portable 1 | | Mineral | 46:78 | 114:64 | 6300 | | | |
| 106 | Thompson Falls | 241213 | Sanders | 47:58 | 115:28 | 2426 | Valley | S | X |
| 106 | St. Regis | 241302 | Mineral | 47:31 | 115:11 | 2678 | Valley | S | X |
| 106 | Nine Mile | 241507 | Missoula | 47:07 | 114:40 | 3314 | Valley | SW | X |
| 106 | Pardee | 241308 | Mineral | 47:27 | 114:92 | 4569 | Slope | SW | X |
| 106 | Plains | 241206 | Sanders | 47:47 | 114:88 | 2481 | Valley | S | X |
| 107 | Hot Springs | 241211 | Sanders | 47:61 | 114:67 | 2960 | Valley | SW | X |
| 107 | Jette | 241404 | Lake | 47:76 | 114:23 | 3593 | Slope | Flat | |
| 107 | Ronan | 241403 | Lake | 47:54 | 114:10 | 3234 | Valley | Flat | X |
| 108 | Seeley Lake | 241508 | Missoula | 47:18 | 113:44 | 4130 | Valley | W | X |
| 108 | Blue Mountain | 241513 | Missoula | 46:82 | 114:10 | 3412 | Valley | Flat | X |
| 108 | Stinkwater | 241518 | Missoula | 46:85 | 113:38 | 5443 | Ridge | NE | X |
| 108 | Point Six | 241519 | Missoula | 47:04 | 113:98 | 7897 | Ridge | S | X |
| 108 | Garrison* | 243108 | Powell | 46:54 | 112:74 | 4520 | Slope | E | X |
| 108 | Saddle Mtn* | 243104 | Powell | 46:68 | 113:01 | 6814 | Ridge | Flat | X |
| 108 | Clearwater | 241520 | Missoula | 47:01 | 113:33 | 3900 | Valley | S | X |
| 108 | Finney's Meadow | 241595 | Missoula | 47:05 | 114:11 | 4441 | Valley | | X |
| 109 | Hells Half | 101019 | Idaho | 45:65 | 114:63 | 8100 | Ridge | SW | X |
| 109 | Deer Mtn | 242902 | Ravalli | 46:03 | 114:06 | 7282 | Ridge | S | X |
| 109 | Gird Point | 242911 | Ravalli | 46:19 | 113:92 | 6950 | Slope | S | X |
| 109 | West Fork | 242907 | Ravalli | 45:82 | 114:26 | 4420 | Ridge | SW | X |
| 109 | Tepee Point | 242910 | Ravalli | 45:93 | 113:74 | 6629 | Ridge | SW | X |
| 109 | Stevensville | 242904 | Ravalli | 46:51 | 114:09 | 3365 | Valley | SW | X |
| 109 | Little Rock Cr | 242914 | Ravalli | 46:04 | 114:26 | 5507 | Slope | E | X |
| 109 | Smith Creek | 242912 | Ravalli | 46:44 | 114:23 | 5650 | Slope | SE | X |
| 109 | Sula | 242905 | Ravalli | 45:82 | 113:95 | 4570 | | | X |
| 109 | Darby* | 242901 | Ravalli | 46:03 | 114:17 | 3887 | Valley | SW | X |
| 110 | Anaconda* | 244402 | Deer Lodge | 46:10 | 113:10 | 6000 | Valley | Flat | X |
| 110 | Phillipsburg | 243002 | Granite | 46:32 | 113:30 | 5280 | Slope | W | X |
| 110 | French Creek | 245415 | Beaverhead | 45:33 | 112:91 | 7422 | | | X |
| 110 | Wise River | 245405 | Beaverhead | 45:78 | 112:93 | 5704 | Slope | N | X |

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| Zone | Station | WIMS # | County | Lat | Long | Elev | Site | Aspect | NFDRS |
|-------------|-------------------------------------|---------------|---------------|------------|-------------|-------------|-------------|---------------|--------------|
| 110 | Steele Creek | 245417 | Beaverhead | 45:60 | 113:35 | 6405 | | | X |
| 111 | Brenner | 245409 | Beaverhead | 44:96 | 113:21 | 6631 | Slope | Flat | X |
| 111 | Red Rock | 245410 | Beaverhead | 44:68 | 111:83 | 6690 | Valley | SW | X |
| 111 | Antelope | 245412 | Beaverhead | 44:69 | 112:54 | 6795 | Ridge | NE | X |
| 111 | Harkness | 245416 | Beaverhead | 44:47 | 112:95 | 8400 | | | X |
| 111 | Ennis | 245501 | Madison | 45:35 | 111:73 | 5202 | Valley | Flat | X |
| 111 | Burnt Creek | 245506 | Madison | 44:95 | 111:96 | 6954 | | | X |
| 111 | Jefferson/Whitehall | 243204 | Jefferson | 45:88 | 112:15 | 4390 | Valley | Flat | X |
| 111 | Galena | 243206 | Jefferson | 46:22 | 112:23 | 6545 | Ridge | Flat | X |

* Denotes once-a-day manual observations. These sites are not on the Observation Page but are available through WIMS.

FIRE WEATHER DISTRICT

The Missoula Fire Weather District includes zones 102 through 111 in north-central Idaho and western Montana. See map below.

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